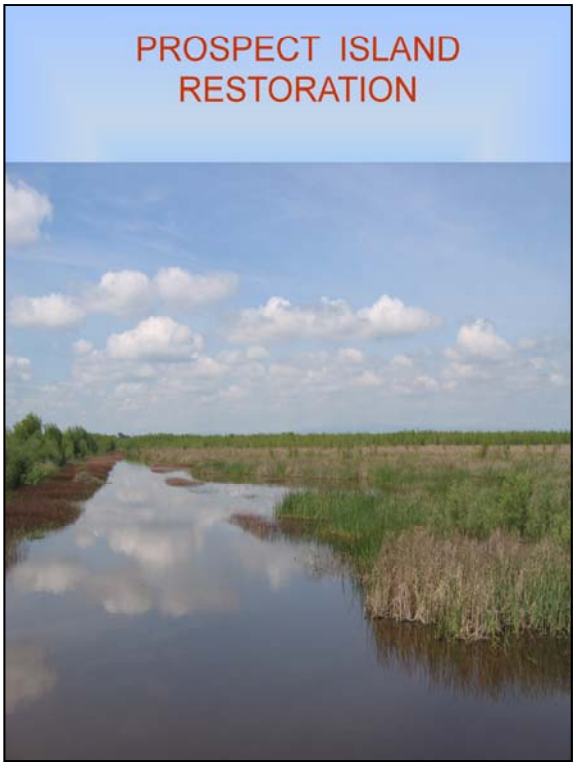


DWR acquired Prospect Island in January 2010 at no cost. Our intention is to breach the levees and restore freshwater tidal marshes and associated aquatic habitat.

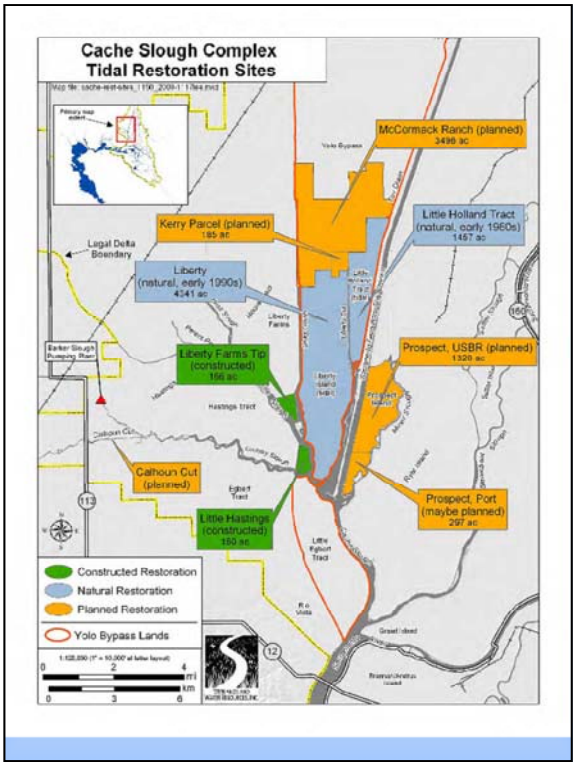
- will partially satisfy required actions and RPAs in the Salmon OCAP Biological Opinion (Action 1.6.2 (Liberty Island/Lower Cache Slough)) and the Delta Smelt OCAP Biological Opinion – RPA 4 (restore 8,000 acres of tidal marsh)

- Identified as a Potential Action in the Fish Restoration Program Agreement between DFG and DWR

-Identified as a BDCP Priority Project for Near-Term Implementation and will count towards the BDCP aquatic habitat target acreage.

-The island is currently functioning as non-tidal marsh and open water habitat due to a vandalized culvert that is conveying water onto the island from Miner Slough.

Located in the north delta in the Cache Slough Complex, at the southern end of the Yolo Bypass.



Prospect Island is adjacent to planned and existing restoration projects in the Cache Slough Complex area

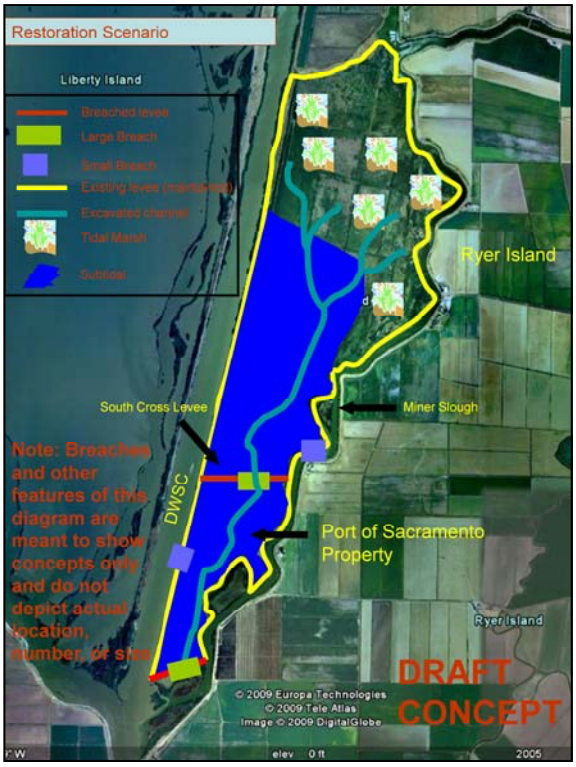
The northern ¾ (1200 acres) is owned by the Dept. of Water Resources, the southern ¼ (app 400 acres) is owned by the Port of West Sacramento. We are in discussion with the Port of West Sacramento to include their property in the restoration project.

Still trying to determine the elevation of the island, but we believe that we can create somewhere between 500 and 1000 acres of intertidal freshwater marsh.

Estimated total cost for interim management, planning, and construction is between $15 and $20 million dollars.

Currently, we are still in the conceptual design phase – we're in the process of collecting and analyzing baseline data and hope to have a contract in place within the next few months to do hydrologic modeling so that we can develop design alternatives.

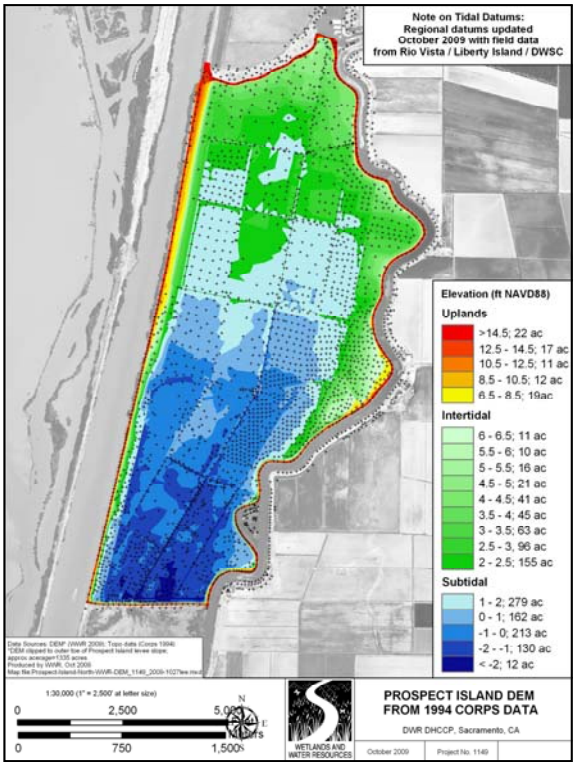
NEXT STEPS after that will be to conduct baseline environmental surveys, do the environmental analyses and documentation, obtain permits, secure a construction contract, and then construct the project.



Restoration Scenario 1: Estuarine food web focus

Primary goal is to enhance productivity to be exported to the estuary

Maximized residence time = greater primary productivity


Note on Tidal Datums:
Regional datums updated
October 2009 with field data
from Rio Vista / Liberty Island / DWSC
Elevation (ft NAVD88)
Uplands
>14.5; 22 ac
12.5 - 14.5; 17 ac
10.5 - 12.5; 11 ac
8.5 - 10.5; 12 ac
6.5 - 8.5; 19ac
Intertidal
6 - 6.5; 11 ac
5.5 - 6; 10 ac
5 - 5.5; 16 ac
4.5 - 5; 21 ac
4 - 4.5; 41 ac
3.5 - 4; 45 ac
3 - 3.5; 63 ac
2.5 - 3; 96 ac
2 - 2.5; 155 ac
Subtidal
1 - 2; 279 ac
0 - 1; 162 ac
-1 - 0; 213 ac
-2 - -1; 130 ac
< -2; 12 ac
1:30,000 (1" = 2,500' at letter size)
0
2,500
5,000
Feet
0
750
1,500
Meters
N
WETLANDS AND WATER RESOURCES
PROSPECT ISLAND DEM
FROM 1994 CORPS DATA
DWR DHCCP, Sacramento, CA
October 2009
Project No. 1149